

Hasan Yavas

List of Publications by Year in descending order

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36
papers

806
citations

393982

19
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525886

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36
times ranked

1652
citing authors

#	ARTICLE	IF	CITATIONS
1	Disentangling x-ray dichroism and birefringence via high-purity polarimetry. <i>Optica</i> , 2021, 8, 56.	4.8	15
2	Spin and charge excitations in the correlated multiband metal CaO . <i>Physical Review B</i> , 2021, 103, .	1.1	6
3	Laser-induced transient magnons in $\text{Sr}_3\text{Ir}_2\text{O}_7$ throughout the Brillouin zone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	19
4	Evolution of the electronic structure in Ta_2 across the structural transition revealed by resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2021, 103, .	1.1	7
5	Proximate ferromagnetic state in the Kitaev model material Ir_2RuCl_3 . <i>Nature Communications</i> , 2021, 12, 4512.	5.8	47
6	A portable on-axis laser-heating system for near-90° X-ray spectroscopy: application to ferropericlasite and iron silicide. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 414-424.	1.0	14
7	IRIXS: a resonant inelastic X-ray scattering instrument dedicated to X-rays in the intermediate energy range. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 538-544.	1.0	13
8	Observation of spin-orbit excitations and Hund's multiplets in Ca_2 . <i>Physical Review B</i> , 2019, 100, .	1.1	14
9	Combining X-ray $\text{K}^{1,3}$, valence-to-core, and X-ray Raman spectroscopy for studying Earth materials at high pressure and temperature: the case of siderite. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 384-393.	1.6	17
10	Orientation of the ground-state orbital in CeCoIn_5 . <i>Physical Review B</i> , 2019, 99, .	1.1	9
11	Spin waves and spin-state transitions in a ruthenate high-temperature antiferromagnet. <i>Nature Materials</i> , 2019, 18, 563-567.	13.3	31
12	Direct imaging of orbitals in quantum materials. <i>Nature Physics</i> , 2019, 15, 559-562.	6.5	15
13	Persistent Octahedral Coordination in Amorphous GeO_2 Up to 100 GPa by K^2 . <i>Physical Review Letters</i> , 2019, 123, 085701.	2.8	17
14	The Macromolecular Femtosecond Crystallography Instrument at the Linac Coherent Light Source. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 346-357.	1.0	37
15	X-ray Raman spectroscopy of lithium-ion battery electrolyte solutions in a flow cell. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 537-542.	1.0	20
16	Crystal Field Ground State of the Strongly Correlated Topological Insulator SmB_6 . <i>Physical Review Letters</i> , 2018, 120, 016402.	2.9	37
17	Performance of quartz- and sapphire-based double-crystal high-resolution (~ 10 meV) RIXS monochromators under varying power loads. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1030-1035.	1.0	10
18	Probing Transient Valence Orbital Changes with Picosecond Valence-to-Core X-ray Emission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2620-2626.	1.5	27

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19	New materials for high-energy-resolution x-ray optics. MRS Bulletin, 2017, 42, 424-429.	1.7	14
20	The quartet ground state in CeB ₆ : An inelastic x-ray scattering study. Europhysics Letters, 2017, 117, 17003.	0.7	15
21	Pressure driven spin transition in siderite and magnesiosiderite single crystals. Scientific Reports, 2017, 7, 16526.	1.6	24
22	A multi-MHz single-shot data acquisition scheme with high dynamic range: pump-probe X-ray experiments at synchrotrons. Journal of Synchrotron Radiation, 2016, 23, 1409-1423.	1.0	12
23	Single-photon excitation of $K\hat{\pm}$ heliumlike $K\hat{\pm}$ Results supporting quantum electrodynamics predictions. Physical Review A, 2015, 92, .	1.0	26
24	Absolute measurement of radiative and Auger rates of $K\hat{\pm}$ in highly charged Fe ions. Physical Review A, 2015, 91, .	1.0	26
25	Resonant inelastic X-ray scattering spectrometer with 25â€¦meV resolution at the Cu <i>K</i> -edge. Journal of Synchrotron Radiation, 2015, 22, 961-967.	1.0	26
26	Iron speciation in minerals and glasses probed by $M_{2/3}$ -edge X-ray Raman scattering spectroscopy. Contributions To Mineralogy and Petrology, 2014, 167, 1.	1.2	18
27	MERIXâ€”Next generation medium energy resolution inelastic X-ray scattering instrument at the APS. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 140-149.	0.8	54
28	X-Ray Resonant Photoexcitation: Linewidths and Energies of $K\hat{\pm}$ Transitions in Highly Charged Fe Ions. Physical Review Letters, 2013, 111, 103002.	2.9	64
29	Improved focusing capability for inelastic X-ray spectrometer at 3-ID of the APS: A combination of toroidal and Kirkpatrick-Baez (KB) mirrors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 649, 166-168.	0.7	28
30	Specific Heat of Olive Oil to 356 MPa. JAOCS, Journal of the American Oil Chemists' Society, 2010, 87, 1517-1520.	0.8	3
31	Protein elasticity probed with two synchrotron-based techniques. Journal of Chemical Physics, 2010, 132, 085103.	1.2	25
32	Observation of phonons with resonant inelastic x-ray scattering. Journal of Physics Condensed Matter, 2010, 22, 485601.	0.7	29
33	Shear wave anisotropy of textured hcp-Fe in the Earth's inner core. Earth and Planetary Science Letters, 2010, 298, 361-366.	1.8	19
34	Sound velocities of compressed Fe ₃ C from simultaneous synchrotron X-ray diffraction and nuclear resonant scattering measurements. Journal of Synchrotron Radiation, 2009, 16, 714-722.	1.0	29
35	Sapphire analyzers for high-resolution X-ray spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 582, 149-151.	0.7	22
36	A High-Resolution RIXS Spectrometer for Correlated Electron Materials. AIP Conference Proceedings, 2005, . .	0.3	1